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DATE: Wednesday, July 17, 2002

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result set

DB=USPT; PLUR=YES; OP=AND

L1	r2 same (campylobacter or jejuni or cjejuni)	0	L1
L2	r2 and (campylobacter or jejuni or cjejuni).ti,ab,clm.	2	L2
L3	antibodies.clm. same (campylobacter or jejuni or cjejuni).clm.	9	L3
L4	('6077678' '5871731')[PN]	2	L4

END OF SEARCH HISTORY

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L3: Entry 3 of 9

File: USPT

DOCUMENT-IDENTIFIER: US 6077678 A

TITLE: Methods for detecting *Campylobacter* bacteria or antibodies to *Campylobacter* bacteria with an immunoassay

CLAIMS:

1. A method for detecting antibodies to *Campylobacter* bacteria in an animal or biological sample therefrom, comprising the steps of:
 - b) detecting an antibody present in said biological sample binding to the *Campylobacter* bacterium or fragment thereof, wherein said detecting is by means of an immunoassay.
5. A method for detecting antibodies to *Campylobacter* bacteria in an animal or biological sample therefrom, comprising the steps of:
 - b) detecting an antibody present in said biological sample binding to the *Campylobacter* bacterium or fragment thereof, wherein said detecting is by means of an immunoassay.
 - a) contacting said biological sample with an antibody that binds the *Campylobacter* bacteria or a fragment thereof, said antibody having been obtained using a *Campylobacter* bacterium having an enhanced antigenic property, and harvested from a culture of a *Campylobacter* species, wherein said culture is at about early log phase, between early log phase and stationary phase, or at about stationary phase, grown in vitro under a combination of conditions comprising:
 - b) detecting an antibody binding to the *Campylobacter* bacteria or fragment thereof present in said biological sample, wherein said detecting is by means of an immunoassay.
 - a) contacting said biological sample with an antibody that binds the *Campylobacter* bacteria or a fragment thereof, said antibody having been obtained using a *Campylobacter* bacterium having an enhanced antigenic property, and harvested from a culture of *Campylobacter* bacteria wherein said culture is at about early log phase, between early log phase and stationary phase, or at about stationary phase, grown in vitro under a set of conditions comprising:
 - b) detecting an antibody binding to the *Campylobacter* bacteria or fragment thereof present in said biological sample, wherein said detecting is by means of an immunoassay.
15. A diagnostic immunoassay kit for detecting production of antibodies to *Campylobacter* bacteria or for

detecting Campylobacter bacteria, comprising:

a Campylobacter bacterium or a fragment thereof or antibodies thereto, wherein said Campylobacter has an enhanced antigenic property, and is harvested from a culture of a Campylobacter species grown in vitro under a combination of conditions comprising:

19. A diagnostic immunoassay kit for detecting production of antibodies to Campylobacter bacteria or for detecting Campylobacter bacteria, comprising:

a Campylobacter bacterium or a fragment thereof or antibodies thereto, wherein said Campylobacter bacterium has an enhanced antigenic property, and is harvested from a culture of a Campylobacter species grown in vitro under a set of conditions comprising:

WEST**Search Results - Record(s) 1 through 2 of 2 returned.**

L4: Entry 1 of 2

File: USPT

US-PAT-NO: 6077678

DOCUMENT-IDENTIFIER: US 6077678 A

TITLE: Methods for detecting Campylobacter bacteria or antibodies to Campylobacter bacteria with an immunoassay

DATE-ISSUED: June 20, 2000

US-CL-CURRENT: 435/7.1, 424/282.1, 424/802, 424/93.1, 424/93.4, 435/243, 435/252.1, 435/7.2, 435/822, 435/960, 435/975INT-CL: [07] A61 K 45/00, C12 N 1/00, C12 N 1/12, G01 N 33/53

L4: Entry 2 of 2

File: USPT

US-PAT-NO: 5871731

DOCUMENT-IDENTIFIER: US 5871731 A

TITLE: Oral administration of immunoglobulin preparations for treatment of chronic pain syndrome

DATE-ISSUED: February 16, 1999

US-CL-CURRENT: 424/130.1, 424/135.1, 424/184.1, 514/2, 514/21, 530/387.1, 530/388.1, 530/833INT-CL: [06] A61 K 39/395, A61 K 39/38, A61 K 38/00, C07 K 16/00

WEST

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L3: Entry 4 of 9

File: USPT

DOCUMENT-IDENTIFIER: US 5871731 A

TITLE: Oral administration of immunoglobulin preparations for treatment of chronic pain syndrome

CLAIMS:

4. The method according to claim 1, wherein the immunoglobulins have antibody activity against Campylobacter jejuni.

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2002/Jul W2
File 5:Biosis Previews(R) 1969-2002/Jul W2
(c) 2002 BIOSIS
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Jul W2
(c) 2002 Inst for Sci Info
File 73:EMBASE 1974-2002/Jul W1
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*File 73: For information about Explode feature please
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File 440:Current Contents Search(R) 1990-2002/Jul 17
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File 6:NTIS 1964-2002/Jul W4
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*File 6: See HELP CODES6 for a short list of the Subject Heading Codes
(SC=, SH=) used in NTIS.
File 51:Food Sci.&Tech.Abs 1969-2002/Jun W4
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*File 654: is redesigned with new search and display features. See
HELP NEWS654 for details. Reassignments current through Dec. 12, 2001.
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*File 50: Truncating CC codes is recommended for full retrieval.
See Help News50 for details.
File 53:FOODLINE(R): Food Science & Technology 1972-2002/Jul 15
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(c) 2002 Elsevier Science B.V.
File 76:Life Sciences Collection 1982-2002/Jul
(c) 2002 Cambridge Sci Abs
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the current months data. See Help News94 for details.
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See Help News162 for details.
File 348:EUROPEAN PATENTS 1978-2002/Jul W01
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File 349:PCT FULLTEXT 1983-2002/UB=20020711,UT=20020704
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File 357:Derwent Biotech Res. 1982-2002/June W1
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Derwent announces file enhancements. Please see HELP NEWS 357.
File 624:McGraw-Hill Publications 1985-2002/Jul 16
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Set Items Description

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Set Items Description

S1 36 ((R(N)2) OR FLAGELLALESS OR AFLAGUL? OR NONFLAGEL? OR (FL-
AGEL? (2N) NEGAT?)) (25N) (JEJUNI? OR CJEJUNI? OR CAMPYLOBACT-
ER?) (100N) (ANTISER? OR ANTIBOD? OR IMMUNOGLOB? OR IGG OR IGM

7/02
VCP

OR IGA OR POLYCLONAL?)

S2 15 RD (unique items)

?t s2/9/1-4 6

2/9/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

08109396 94260712 PMID: 8201772

[The role of flagella of *Campylobacter jejuni* in colonization in the intestinal tract in mice and the cultured-cell infectivity]

Yanagawa Y; Takahashi M; Itoh T

Tokyo Metropolitan Research Laboratory of Public Health.

Nippon saikingaku zasshi. Japanese journal of bacteriology (JAPAN) Mar 1994, 49 (2) p395-403, ISSN 0021-4930 Journal Code: 2984804R

Document type: Journal Article ; English Abstract

Languages: JAPANESE

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

For analyzing the role of the bacterial flagella in colonization in the intestinal tract of mice and adhering to or invading the Intestine 407 cell, a **nonflagellated**, nonmotile mutant was induced by ultraviolet irradiation of a flagellated, motile wild-type strain of *Campylobacter jejuni* CF84-340. There was no great difference in the cellular infectivity to the Intestine 407 cells between the wild-type and the mutant strains. Cellular adherence and invasiveness were then compared by fluorescent **antibody** staining, and an obvious difference was found in the latter. While 21.4% of the organisms of the wild-type strain invaded the cells, only 6.1% of those of the flagella-defective mutant did so. In the experiments in mice involving oral administration, cellular invasiveness was not found with the flagella-defective mutant and no organisms were detected from the blood, although bacteremia is one of the characteristics of infection with *C. jejuni*. Moreover, no intestinal adherence of the mutant was detected, suggesting early elimination of the organism administered. These results indicate that the bacterial flagella are concerned in not only the cellular adherence and intestinal deposit, but also the intracellular invasiveness and invasion into the blood stream from the intestinal wall in the infected mice.

Tags: Animal; Human

Descriptors: **Campylobacter jejuni*--growth and development--GD; *Flagella--physiology--PH; *Intestines--microbiology--MI; Bacterial Adhesion; *Campylobacter jejuni*--physiology--PH; Cells, Cultured; Intestines--cytology--CY; Mice; Mutation

Record Date Created: 19940701

2/9/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

08064917 94200299 PMID: 8150009

Immunoglobulin A antibodies directed against *Campylobacter jejuni* flagellin present in breast-milk.

Nachamkin I; Fischer S H; Yang X H; Benitez O; Cravioto A

Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia 19104-4283.

Epidemiology and infection (ENGLAND) Apr 1994, 112 (2) p359-65,

ISSN 0950-2688 Journal Code: 8703737

Contract/Grant No.: AI-24122; AI; NIAID

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

We studied the relationship between **IgA anti-*Campylobacter* flagellin antibodies** in breast milk samples and protection of breastfed infants living in a rural Mexican village from *Campylobacter* infection. There were fewer episodes of *Campylobacter* infection (symptomatic and

asymptomatic combined) in infants breastfed with milk containing specific anti-flagellin **antibodies** (1.2/child/year, 95% CI 0.6-1.8) versus non-breastfed children (3.3/child/year, 95% CI 1.8-4.8; $P < 0.01$). Infants breastfed with milk that was anti-**flagellin antibody negative** by ELISA also had fewer episodes of infection compared with non-breastfed children, but the difference did not reach statistical significance (1.8/child/year, 95% CI 0.7-3.0 versus 3.3/child/year, 95% CI 1.8-4.8, $P > 0.05$). Breastfeeding has a protective effect against **campylobacter** infection and is associated with the presence of specific **antibodies** directed against **campylobacter** flagellin.

Tags: Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

Descriptors: *Antibodies, Bacterial--analysis--AN; *Breast Feeding; *Campylobacter Infections--epidemiology--EP; *Campylobacter jejuni--immunology--IM; *Diarrhea, Infantile--epidemiology--EP; *Flagellin--immunology--IM; *Immunoglobulin A--analysis--AN; *Milk, Human--chemistry--CH; Analysis of Variance; Campylobacter Infections--immunology--IM; Campylobacter Infections--microbiology--MI; Campylobacter Infections--prevention and control--PC; Confidence Intervals; Diarrhea, Infantile--immunology--IM; Diarrhea, Infantile--microbiology--MI; Diarrhea, Infantile--prevention and control--PC; Enzyme-Linked Immunosorbent Assay; Feces--microbiology--MI; Infant; Infant, Newborn; Mexico--epidemiology--EP; Prospective Studies; Rural Population

CAS Registry No.: 0 (Antibodies, Bacterial); 0 (Immunoglobulin A); 12777-81-0 (Flagellin)

Record Date Created: 19940512

2/9/3 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

07187757 92129509 PMID: 1774247

Analysis of the role of flagella in the heat-labile Lior serotyping scheme of thermophilic Campylobacters by mutant allele exchange.

Alm R A; Guerry P; Power M E; Lior H; Trust T J

Department of Biochemistry and Microbiology, University of Victoria, British Columbia.

Journal of clinical microbiology (UNITED STATES) Nov 1991, 29 (11) p2438-45, ISSN 0095-1137 Journal Code: 7505564

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Flagellin mutations originally constructed in **Campylobacter** coli VC167 (serotype LIO8) by a gene replacement mutagenesis technique (P. Guerry, S. M. Logan, S. Thornton, and T. J. Trust, J. Bacteriol. 172:1853-1860, 1990) were moved from the original host into **Campylobacter** strains of a number of other Lior serogroups by a natural transformation procedure. This is the first report of the use of this transformation method to transfer a mutated locus among **Campylobacter** strains. Flagellin mutants were constructed in a number of heat-labile LIO serotypes and were serotyped and analyzed by immunoelectron microscopy with LIO typing **antisera**. In six cases, isogenic **nonflagellated** mutants were able to be serotyped in the same serogroup as their parent, and immunogold electron microscopy confirmed that **antibodies** in the typing **antisera** bound to components on the surface of both parent and mutant cells. However, in only one case, a strain belonging to serogroup LIO4, was a **nonflagellated** mutant untypeable, and immunogold electron microscopy showed that **antibodies** bound to the flagella filament of the parent but not to the cell surface. Furthermore, after introduction and expression as a flagellar filament of a LIO8 flagellin gene in this mutant, the strain could not be serotyped. These results indicate that a nonflagellar antigen is often the serodeterminant in the heat-labile Lior serotyping scheme.

Tags: Support, Non-U.S. Gov't; Support, U.S. Gov't, Non-P.H.S.

Descriptors: *Campylobacter coli--classification--CL; *Campylobacter coli--ultrastructure--UL; *Campylobacter jejuni--classification--CL; *Campylobacter jejuni--ultrastructure--UL; *Flagella--ultrastructure--UL;

Alleles; Campylobacter coli--genetics--GE; Campylobacter jejuni--genetics
--GE; Flagella--physiology--PH; Flagellin--genetics--GE; Genes, Bacterial;
Heat; Mutation; Serotyping--methods--MT
CAS Registry No.: 12777-81-0 (Flagellin)
Gene Symbol: flaA; flaB
Record Date Created: 19920305

2/9/4 (Item 4 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

06954678 91267599 PMID: 2050397

Significance of flagella in colonization resistance of rabbits immunized with Campylobacter spp.

Pavlovskis O R; Rollins D M; Haberberger R L; Green A E; Habash L;
Strocko S; Walker R I

Infectious Diseases Department, Naval Medical Research Institute,
Bethesda, Maryland 20889.

Infection and immunity (UNITED STATES) Jul 1991, 59 (7) p2259-64,
ISSN 0019-9567 Journal Code: 0246127

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Cross-protection among different Lior and Penner serogroups of **Campylobacter** spp. was studied. Rabbits were orally immunized by gastric feeding with **Campylobacter** spp., and 27 to 30 days later, they were challenged with matched or unmatched serogroups by the removable intestinal tie adult rabbit diarrhea (RITARD) procedure. When immunized animals were challenged with different Lior serotypes, no protection against colonization was seen; however, when challenged with homologous Lior serogroups, protection was demonstrated. Immune animals were colonized for an average of 1 day or less versus at least 6 days for nonimmune animals. Rabbits challenged with matched Penner-unmatched Lior strains showed only marginal protection. Our study also demonstrated that flagella are important in initiating colonization and eliciting protective immunity.

Campylobacter coli VC167B3, an isogenic, **nonflagellated** mutant, did not colonize rabbits regardless of the route of administration. Single feeding of the mutant strain did not protect the host, whereas three feedings, 48 h apart, resulted in complete protection against the flagellated parent strain. When mutant strain immunized rabbits were challenged with other strains of the same Lior serotype, marginal protection was obtained. Immunogold labeling indicated that there is one or more antigens on the cell surface of the **nonflagellated** mutant which reacts with a **polyclonal antiserum** from organisms of the same Lior serogroup. These data implicated the flagellum as the cross-strain protective component of the Lior antigen complex.

Tags: Animal; Female; Support, U.S. Gov't, Non-P.H.S.

Descriptors: *Antigens, Bacterial--immunology--IM; *Campylobacter
--immunology--IM; *Campylobacter Infections--immunology--IM; *Flagella
--immunology--IM; *Flagellin--immunology--IM; Campylobacter--classification
--CL; Cross Reactions; Flagellin--genetics--GE; Genes, Structural,
Bacterial; Immunization; Immunoglobulin A--immunology--IM; Immunohistochemi
stry; Immunologic Memory; Intestines--microbiology--MI; Rabbits; Serotyping
CAS Registry No.: 0 (Antigens, Bacterial); 0 (Immunoglobulin A);
12777-81-0 (Flagellin)

Record Date Created: 19910724

2/9/6 (Item 2 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
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06996034 BIOSIS NO.: 000089097298

**EXTRACTION AND PURIFICATION OF FLAGELLIN AND SEVERAL OUTER MEMBRANE
PROTEINS OF CAMPYLOBACTER-JEJUNI**

AUTHOR: SUN Z-J; SONG H-Y; DUAN S-C

AUTHOR ADDRESS: CHILD. HOSP., DEP BIOCHEM., SCH. BASIC MED., SHANGHAI MED. UNIV.

JOURNAL: CHIN J MICROBIOL IMMUNOL (BEIJING) 9 (6). 1989. 376-378. 1989

FULL JOURNAL NAME: Chinese Journal of Microbiology and Immunology (Beijing)

CODEN: ZWMZD

RECORD TYPE: Abstract

LANGUAGE: CHINESE

ABSTRACT: The surface proteins of *C. jejuni* were labelled with 125I lactoperoxidase. Several outer membrane proteins (MOMP) were shown in autoradiography with molecular weight of 30, 43, 67 and 94 Kd. Two fractions, 67Kd flagellin and 43Kd MOMP, were purified by the modified method of Blaser et al. After gel filtration, both purified components were obtained from 2 strains of *C. jejuni* (N87114 and N87178) isolated from 2 cases during a severe acute diarrheal outbreak. Specific antisera against these fractions were raised in rabbits. Nonflagellated strains were successfully induced by exposing to mutagen, N-methyl-N'-nitro-N-nitrosoguanidine (NTG) from the wild strains of *C. jejuni* N87114. The nonflagellate strains formed small opaque colonies with entire edges showing no motility when cultivated in soft agar plates. The biological properties exhibited by the strains prior to and post treatment with NTG, did not show any change other than motility. The results by SDS-PAGE showed that the strains after treatment with NTG lost their 67Kd flagellin.

DESCRIPTORS: RABBIT NONFLAGELLATED STRAINS LACTOPEROXIDASE COLONY MORPHOLOGY MOTILITY

CONCEPT CODES:

10054 Biochemical Methods-Proteins, Peptides and Amino Acids
10064 Biochemical Studies-Proteins, Peptides and Amino Acids
30500 Morphology and Cytology of Bacteria
31000 Physiology and Biochemistry of Bacteria
36002 Medical and Clinical Microbiology-Bacteriology
10506 Biophysics-Molecular Properties and Macromolecules
12100 Movement (1971-)
32000 Microbiological Apparatus, Methods and Media

BIOSYSTEMATIC CODES:

04610 Spirillaceae (1979-)
86040 Leporidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Microorganisms
Bacteria
Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Lagomorphs

?t s2/3,kwic/ 12

>>>KWIC option is not available in file(s): 399

2/3,KWIC/12 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01198842

Campylobacter vaccine

Campylobacter Impfstoff

Vaccin contre Campylobacter

PATENT ASSIGNEE:

Akzo Nobel N.V., (200754), Velperweg 76, 6824 BM Arnhem, (NL),
(Applicant designated States: all)

INVENTOR:

Jacobs, Antonius Arnoldus Christiaan, Ondersteweg 2, 5995 PS Kessel,
(NL)

van den Bosch, Johannes Franciscus, Spoorstraat 9, 5831 CH Boxmeer, (NL)
Nuijten, Petrus Johannes Maria, De Linde 10, 5831 RD Boxmeer, (NL)

LEGAL REPRESENTATIVE:

Mestrom, Joannes Jozef Louis et al (74856), INTERVET INTERNATIONAL B.V.
P.O. Box 31, 5830 AA Boxmeer, (NL)

PATENT (CC, No, Kind, Date): EP 1043029 A1 001011 (Basic)

APPLICATION (CC, No, Date): EP 201203 000403;

PRIORITY (CC, No, Date): EP 99201086 990409

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61K-039/40; C07K-014/205; A61P-031/04

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200041	441
SPEC A	(English)	200041	5257
Total word count - document A			5698
Total word count - document B			0
Total word count - documents A + B			5698

...ABSTRACT A1

The present invention relates to vaccines comprising **antiserum** raised against a flagellaless **Campylobacter** strain for the prevention of **Campylobacter** colonisation in animals. The invention also relates to antigenic **Campylobacter** proteins visible in a Western blot of **Campylobacter jejuni** protein after incubation of said Western blot with antibodies against a **flagellaless** mutant of **Campylobacter jejuni** and not visible after incubation of said blot with **antibodies** against wild type **Campylobacter jejuni**, and to their use in vaccines and the manufacturing thereof. The invention further relates to vaccines comprising such proteins and **antibodies** against such proteins. The invention further relates to the use of such **Campylobacter** proteins and to **antiserum** and **antibodies** raised against **Campylobacter** antigens for the preparation of vaccines. Finally, the invention relates to methods for the preparation...

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OneSearch, 20 files, 0.325 DialUnits FileOS
\$0.21 TELNET
\$6.57 Estimated cost this search
\$6.57 Estimated total session cost 0.325 DialUnits

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